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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/910,936	07/24/2001	Amit S. Phadnis	CSCO-006/2879	3554

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LAW FIRM OF NAREN THAPPETA
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EXAMINER

NGUYEN, BRIAN D

ART UNIT	PAPER NUMBER
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2616

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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Office Action Summary	Application No.	Applicant(s)	
	09/910,936	PHADNIS ET AL.	
	Examiner	Art Unit	
	Brian D. Nguyen	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 February 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 7-11, 14-17 and 20-23 is/are rejected.
- 7) ☒ Claim(s) 5, 6, 12, 13, 18, 19 and 24-27 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 July 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claims 14-19 are objected to because of the following informalities:

Claim 14, line 1, it is suggested to replace "carrying" with --storing--. Note that for a computer readable medium claim, the instructions must be stored in the medium.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-2, 7-9, 14-15, and 20-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Tari et al (6,704,295).

Regarding claim 1, Tari discloses a method of processing a packet in a gateway device connected to a plurality of communication paths providing connection with corresponding networks (see, for example, figures 19 and 20), the method comprising: providing a search utility in the gateway (411 and 416 in figure 19), the search utility enabling the retrieval of both a forwarding information (port number) and a network address translation (NAT) information necessary for processing the packet in a single search operation (see 412 in figure 19 and addresses and ports in figure 22), wherein the NAT information specifies a new address for an original address in the packet (see col. 2, lines 1-24), the forwarding information specifying one

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of the plurality of communication paths to forward the packet (see different paths from radio server 401 to other servers in networks 1 and 2); receiving the packet containing the original address (see col. 2, lines 1-24); determining the forwarding information and the NAT information for the packet in a single search operation by using the search utility (see processing section and address conversion table in fig. 19 and 22); substituting the new address for the original address in the packet (see col. 2, lines 1-24); and forwarding the packet with the new address on the specified one of the plurality of communication paths in the forwarding information (see IP addresses and port numbers for forwarding the packet in figures 19 and 22).

Regarding claims 2, Tari discloses a single table for both the forwarding and the NAT information (see figure 22).

Regarding claim 7, Tari discloses the forwarding information comprises an interface on the gateway device, wherein the forwarding comprises sending the packet on the interface, wherein the packet is received in the form of an IP packet (see IP address and port numbers corresponding to, for examples, networks and servers in figure 20).

Regarding claims 8-9 and 20-21, claims 8-9 and 20-21 are apparatus claims that have substantially the same limitations as the respective method claims 1-2. Therefore, they are subject to the same rejection.

Regarding claims 14-15, claims 14-15 are computer readable medium claims that have substantially the same limitations as the respective method claims 1-2. Therefore, they are subject to the same rejection.

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 3-4, 10-11, 16-17, and 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tari in view of McClure (6,496,439) and Michels et al (6,678,269).

Regarding claims 3-4, 10-11, 16-17, and 22-23, Tari discloses all the claimed subject matter as described in previous paragraph except for the table uses a content addressable memory (CAM) and the search key includes network addresses. However, these features are well known in the art. McClure discloses the use of CAM to store translation tables (see col. 1, lines 40-41) and Michels discloses the search key includes network addresses (see col. 4, lines 17-20 and col. 6, lines 1-4). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use the CAM as taught by McClure and the search key include the addresses as taught by Michels in the system of Tari in order to meet the design criteria of a particular implementation.

Allowable Subject Matter

6. Claims 5-6, 12-13, and 24-27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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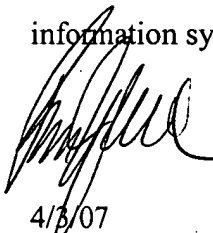
7. Claims 18-19 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian D. Nguyen whose telephone number is (571) 272-3084. The examiner can normally be reached on 7:30-6:00 Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


BRIAN NGUYEN
PRIMARY EXAMINER

4/3/07